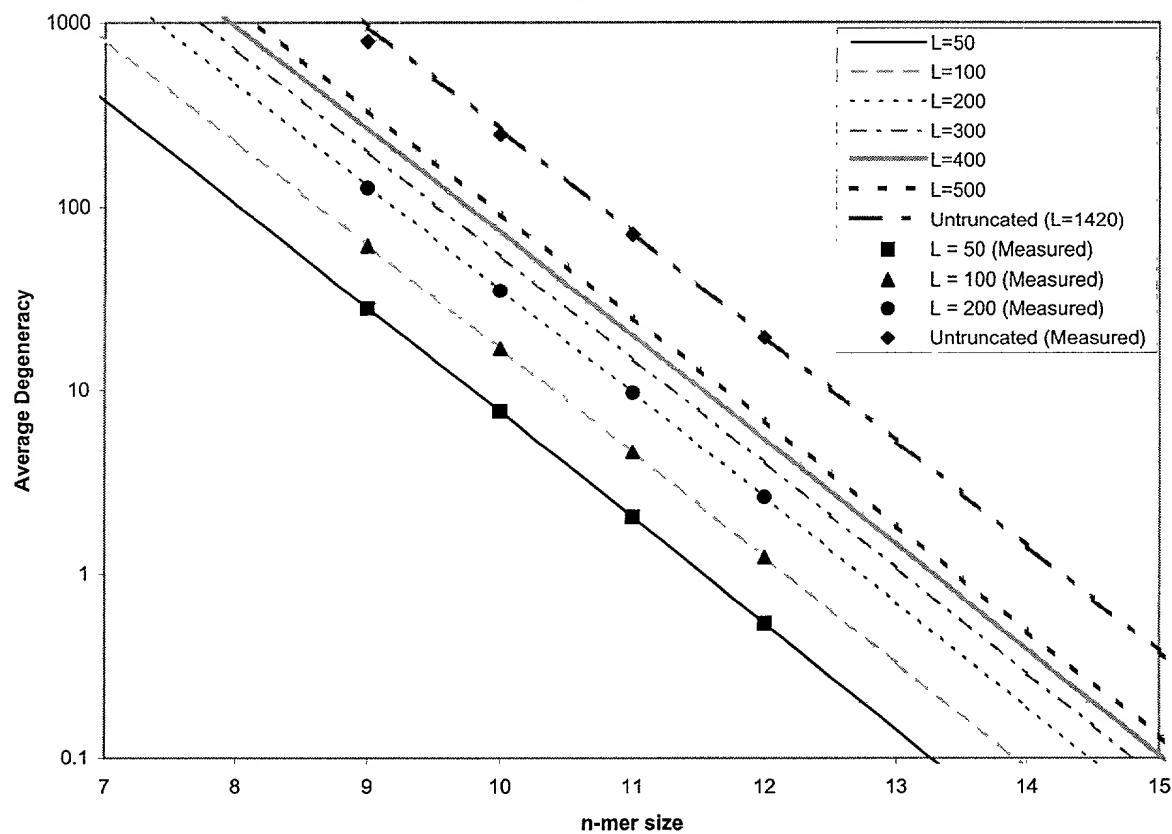
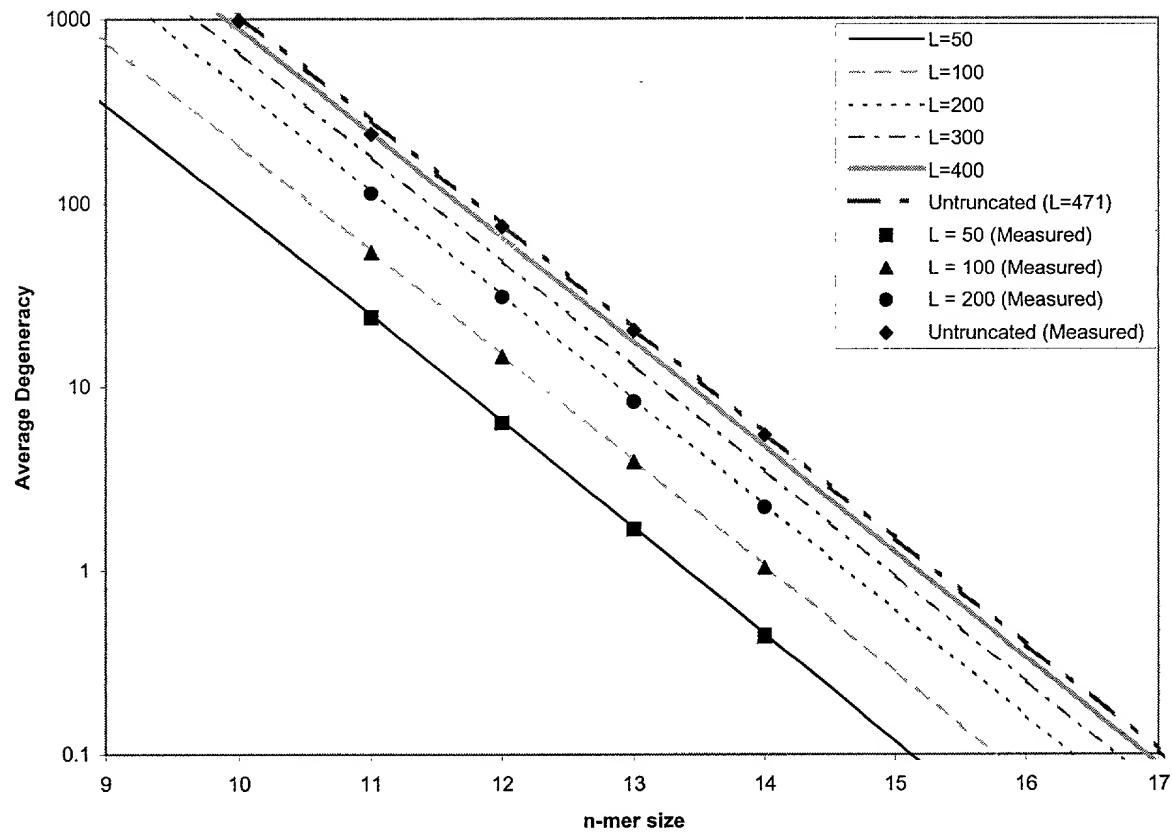


**Figure 1: Yeast Genome; One Mismatch; Truncation to length "L"
Theory and Measurements**



**Figure 2: Mouse Genome; One Mismatch; Truncation to Length "L"
Theory and Measurements**



**Figure 3: Relationships between parameter values such that
average degeneracy = 1 (theoretical predictions)**

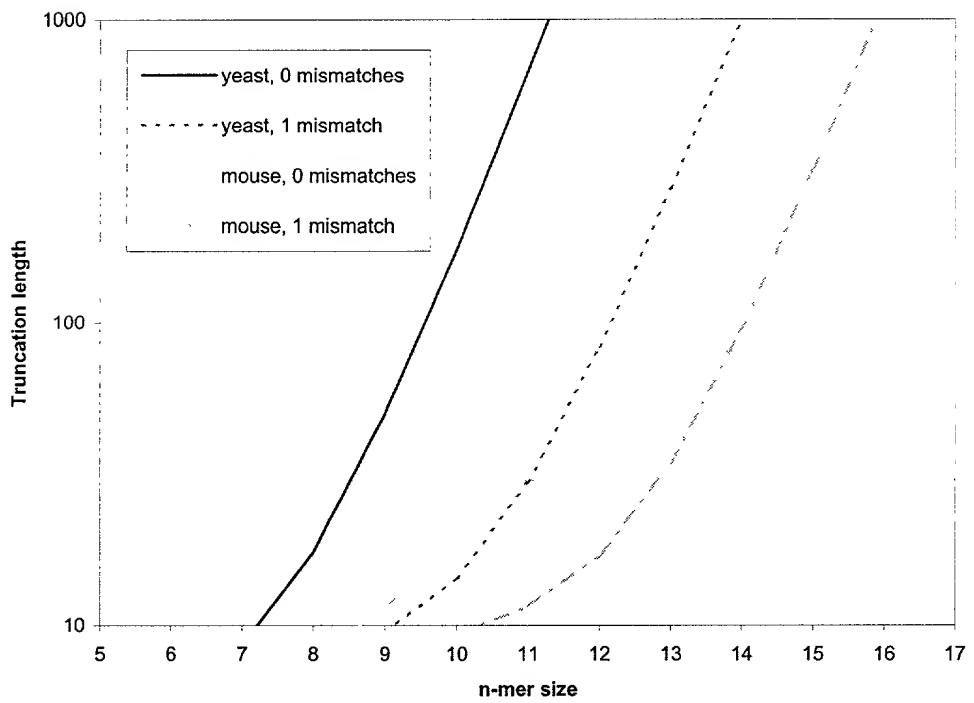


FIG. 4A

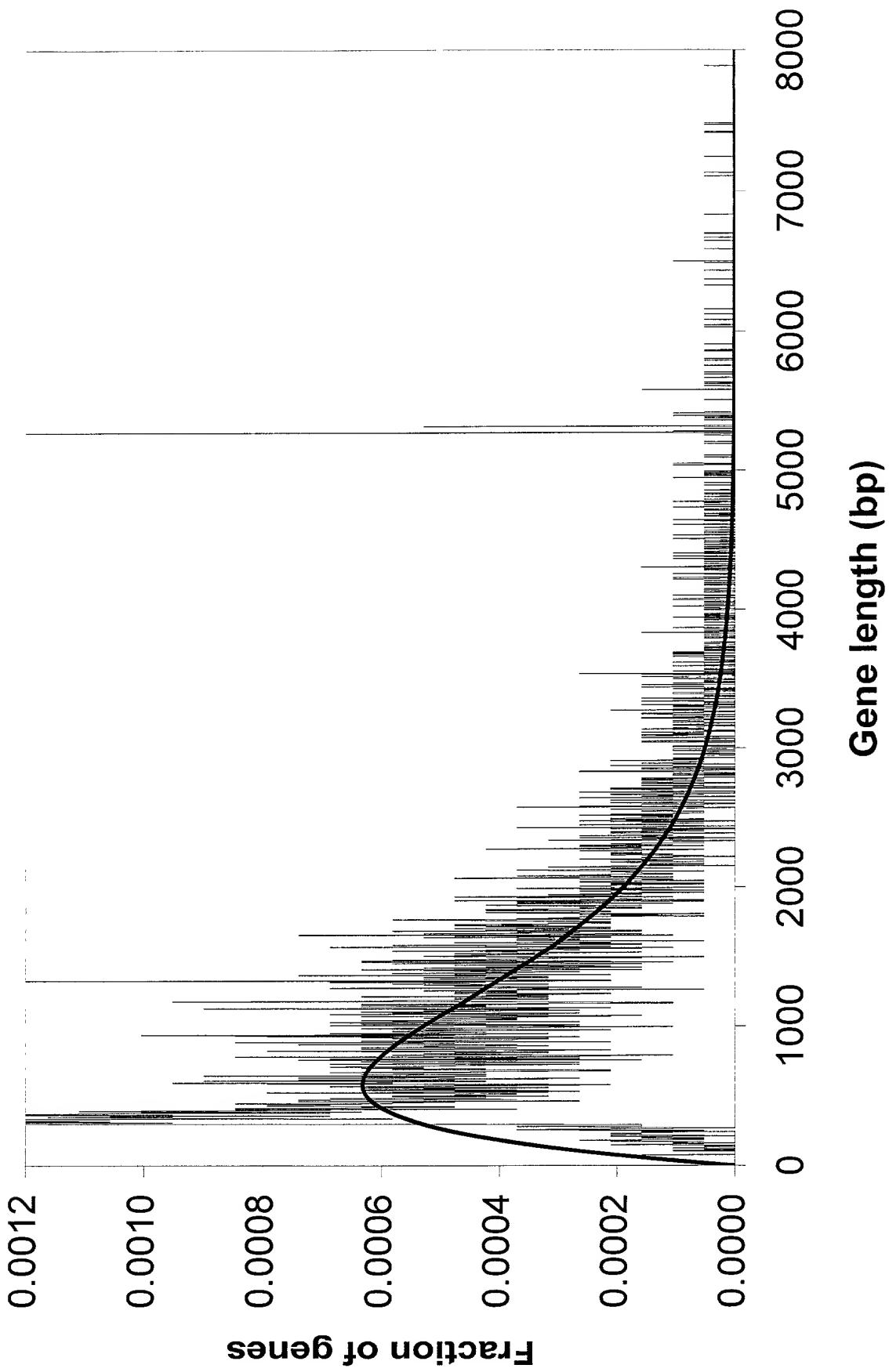


FIG. 4B

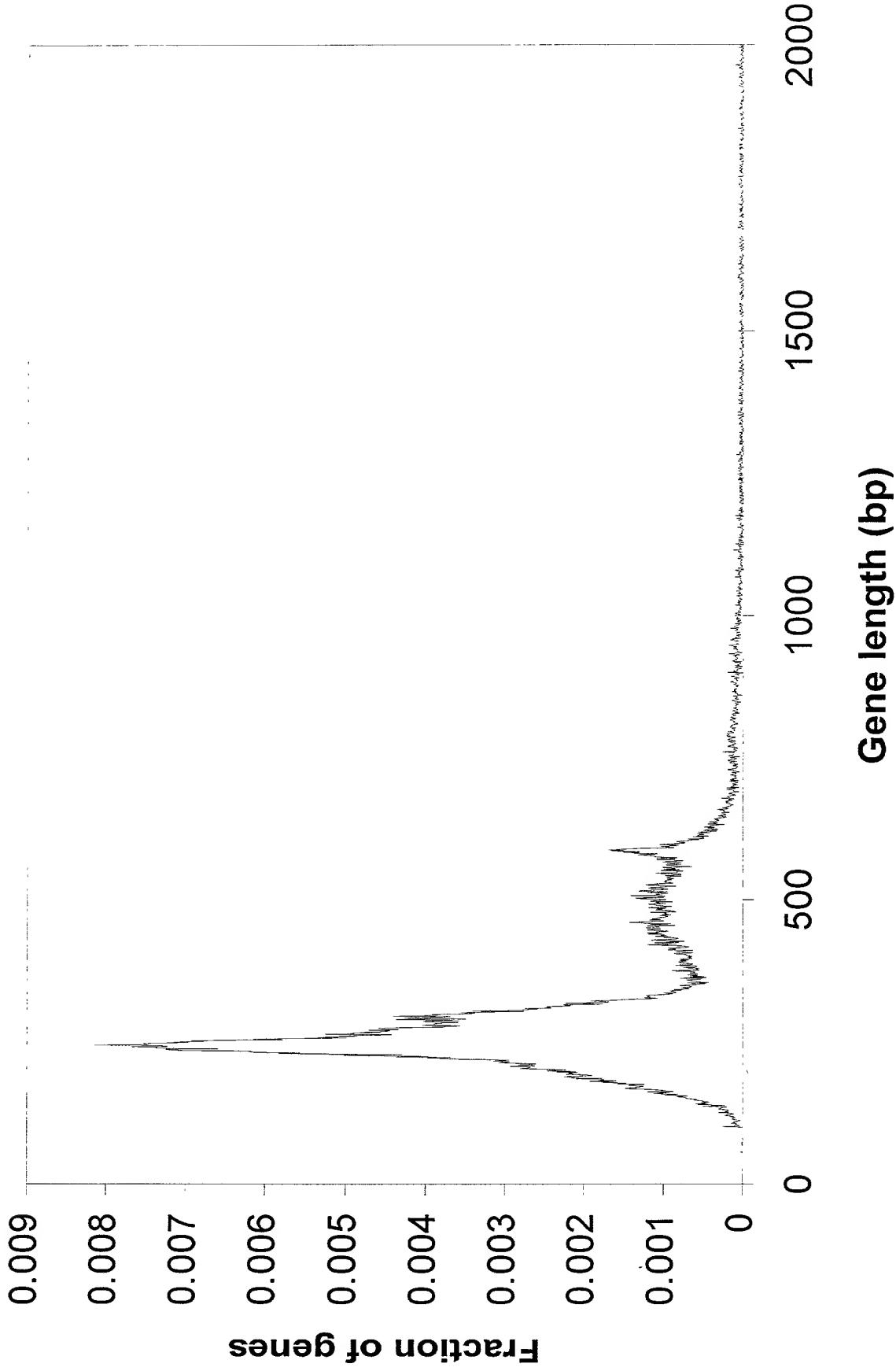


FIG. 5A

8-mers; mismatches: 0

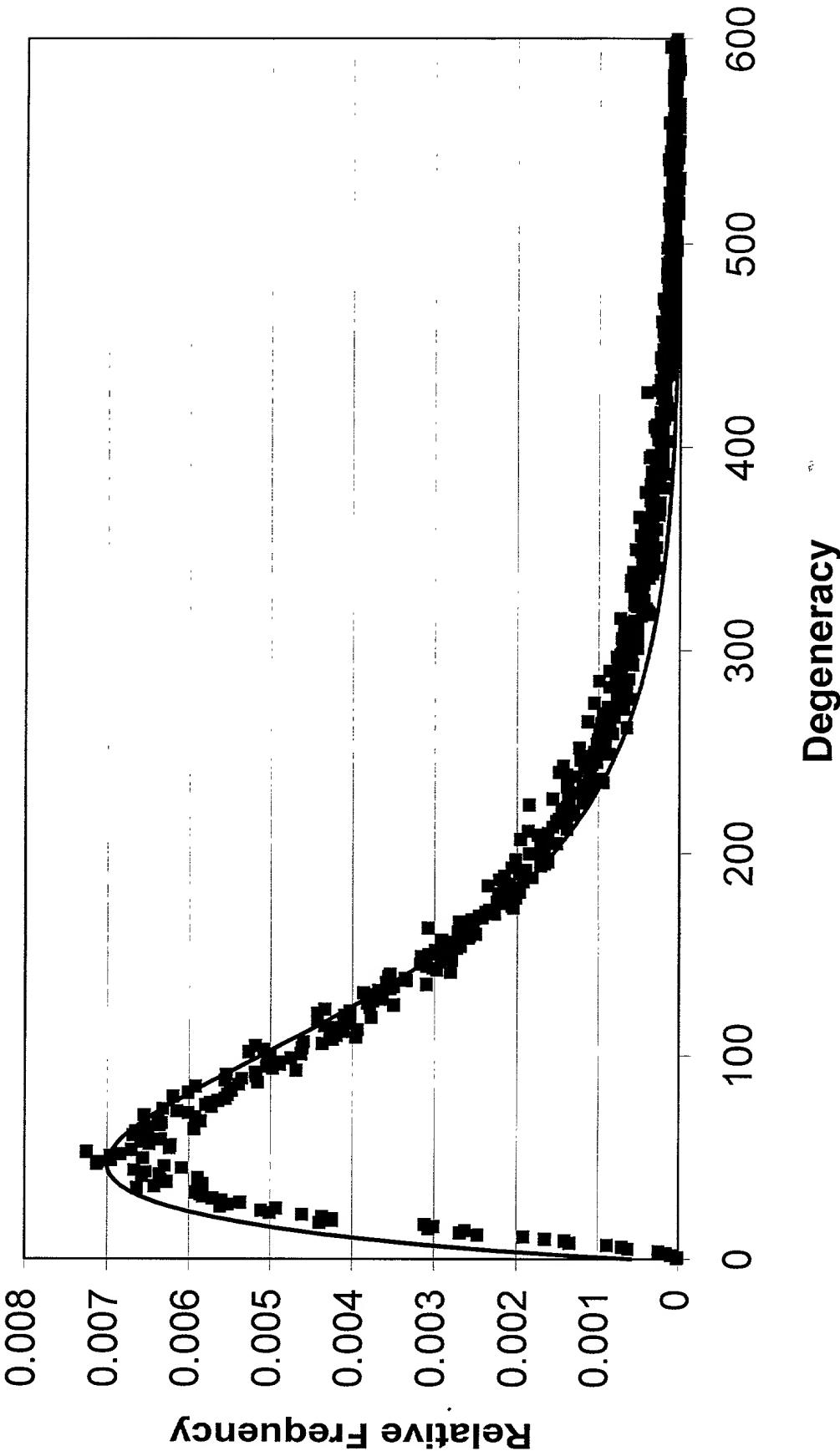


FIG 5B

8-mers; mismatches: 1

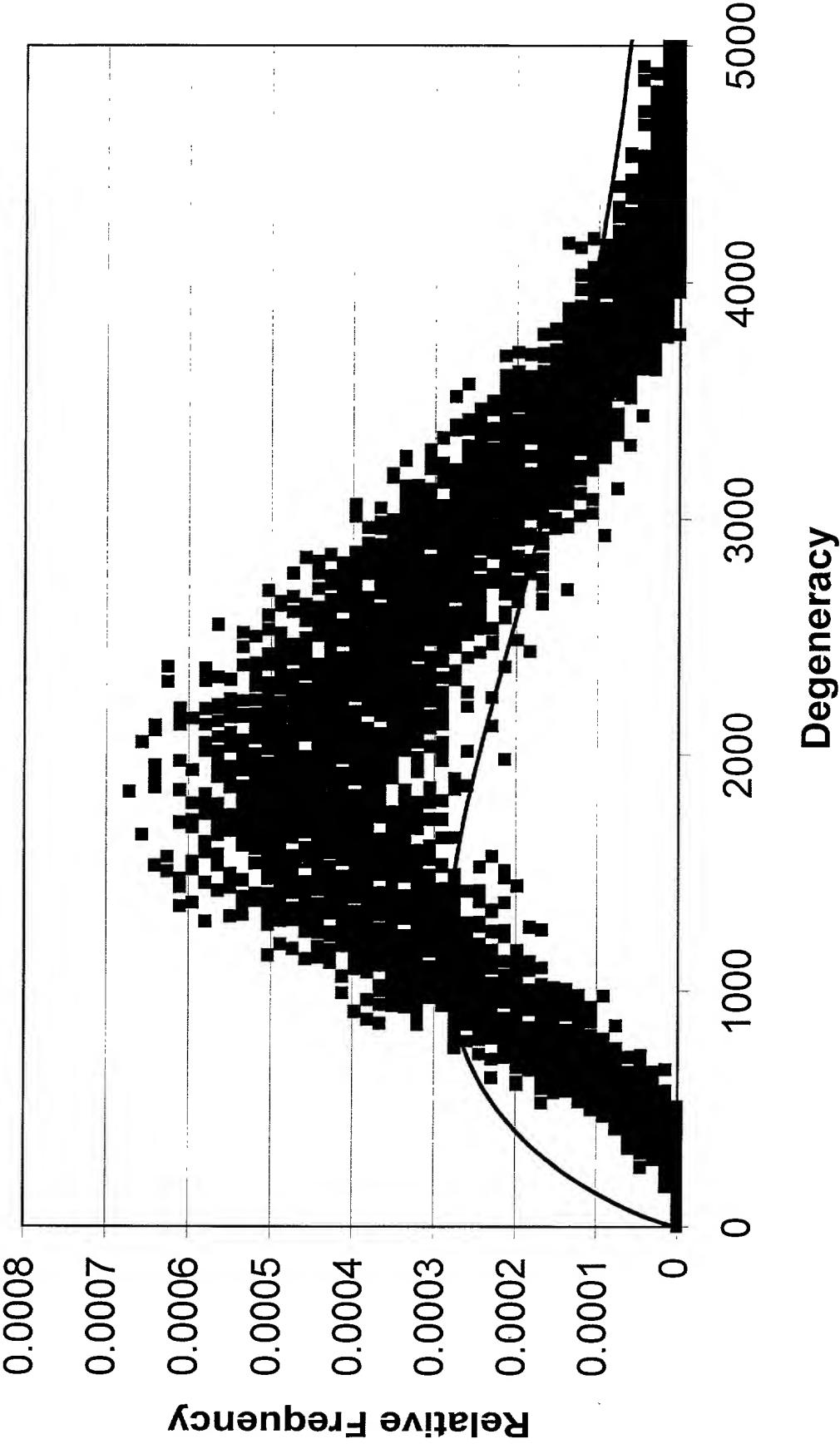


FIG. 5c

9-mers; mismatches: 0

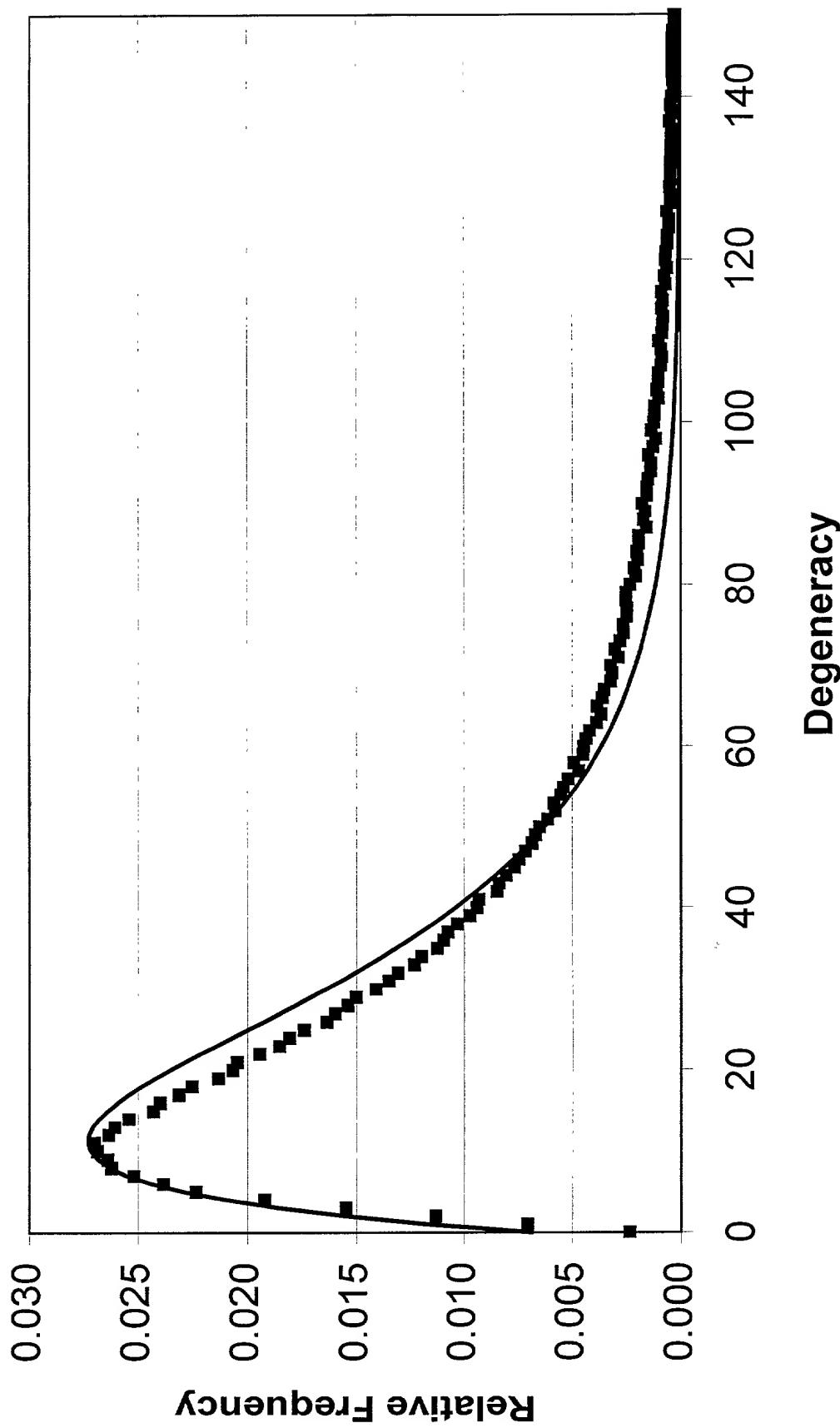


FIG 5D

9-mers; mismatches: 1

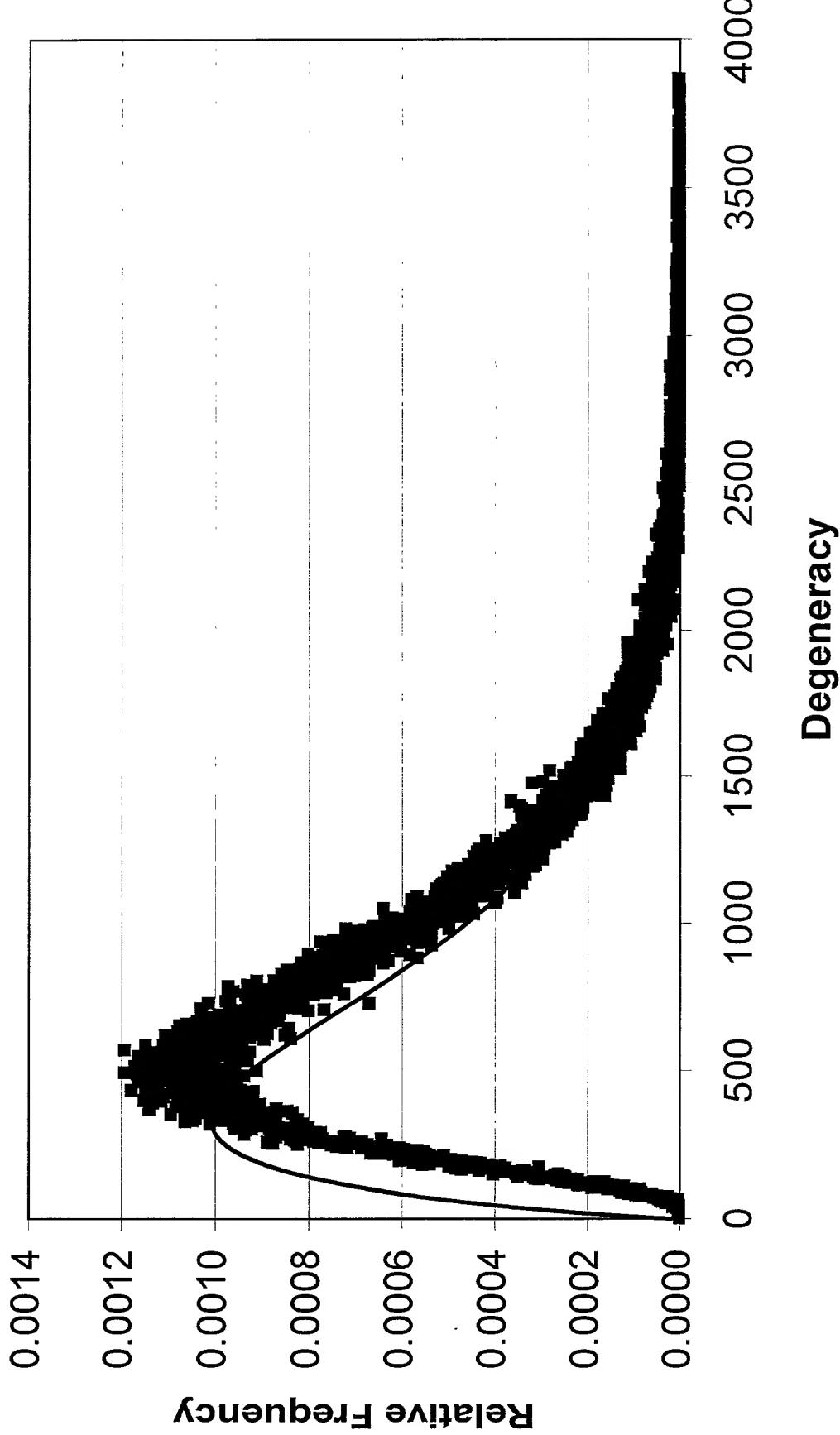


FIG 5E

10-mers; mismatches: 0

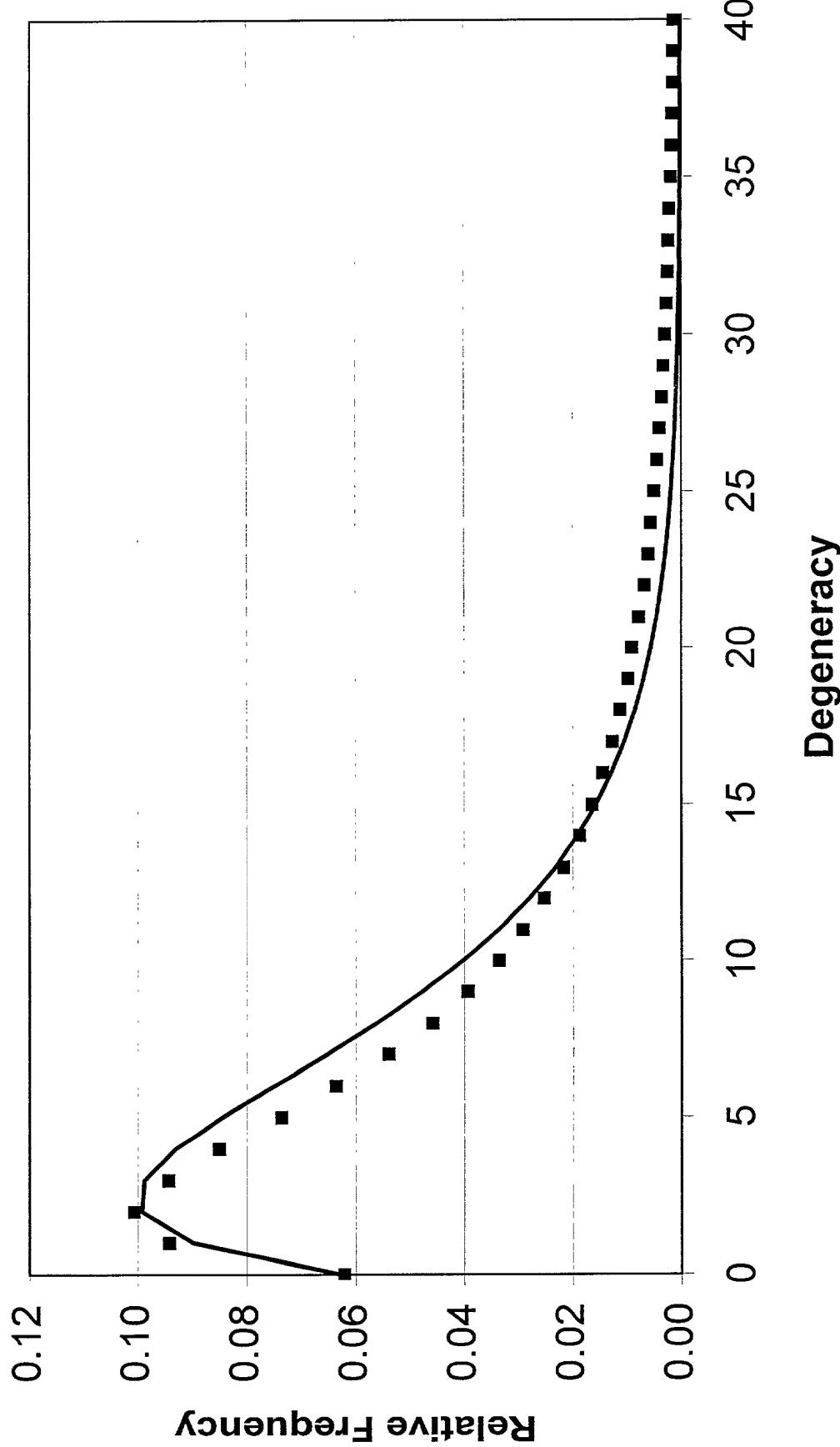


FIG. 5F

10-mers; mismatches: 1

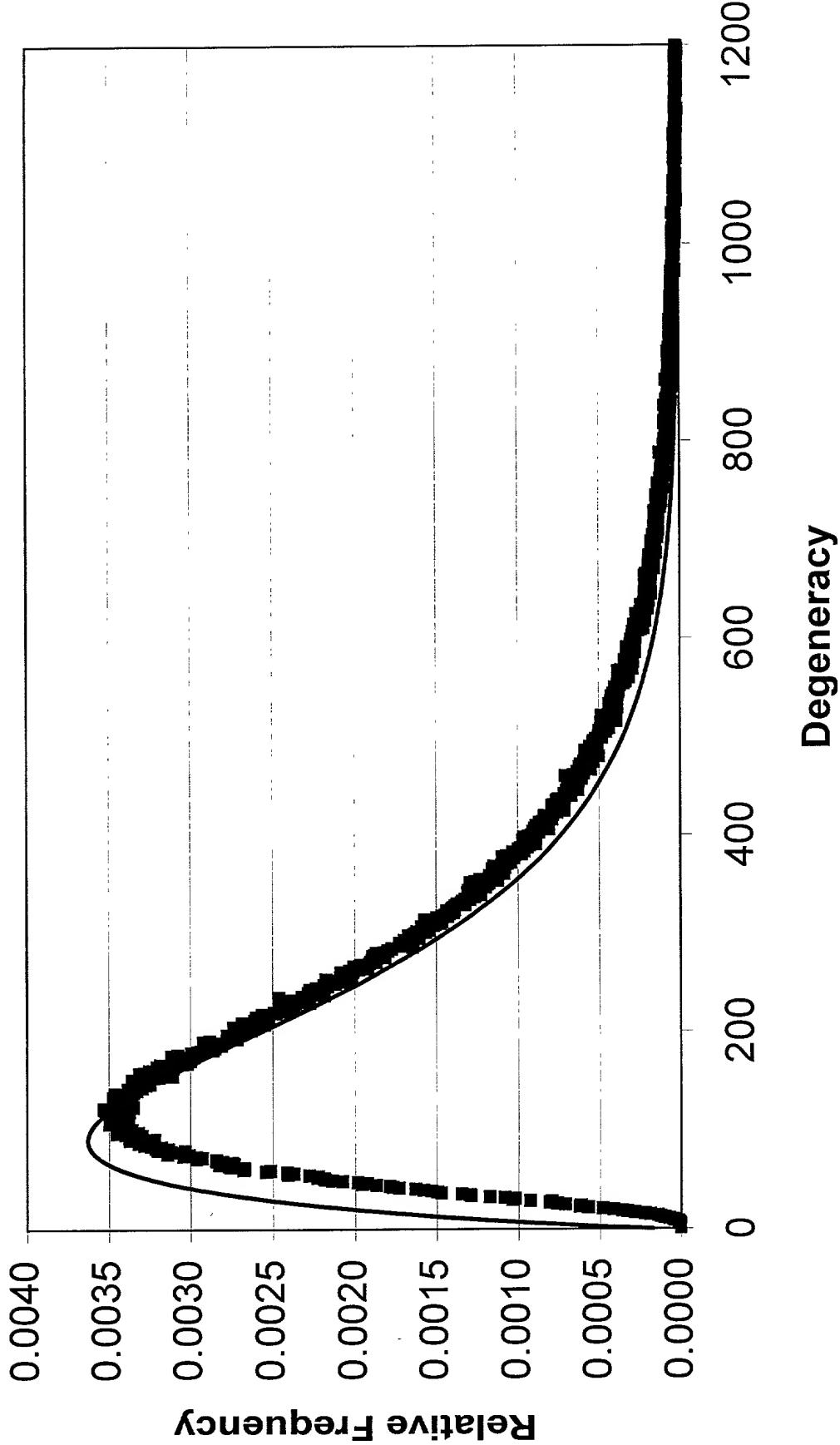


FIG. 5G

11-mers; mismatches: 0

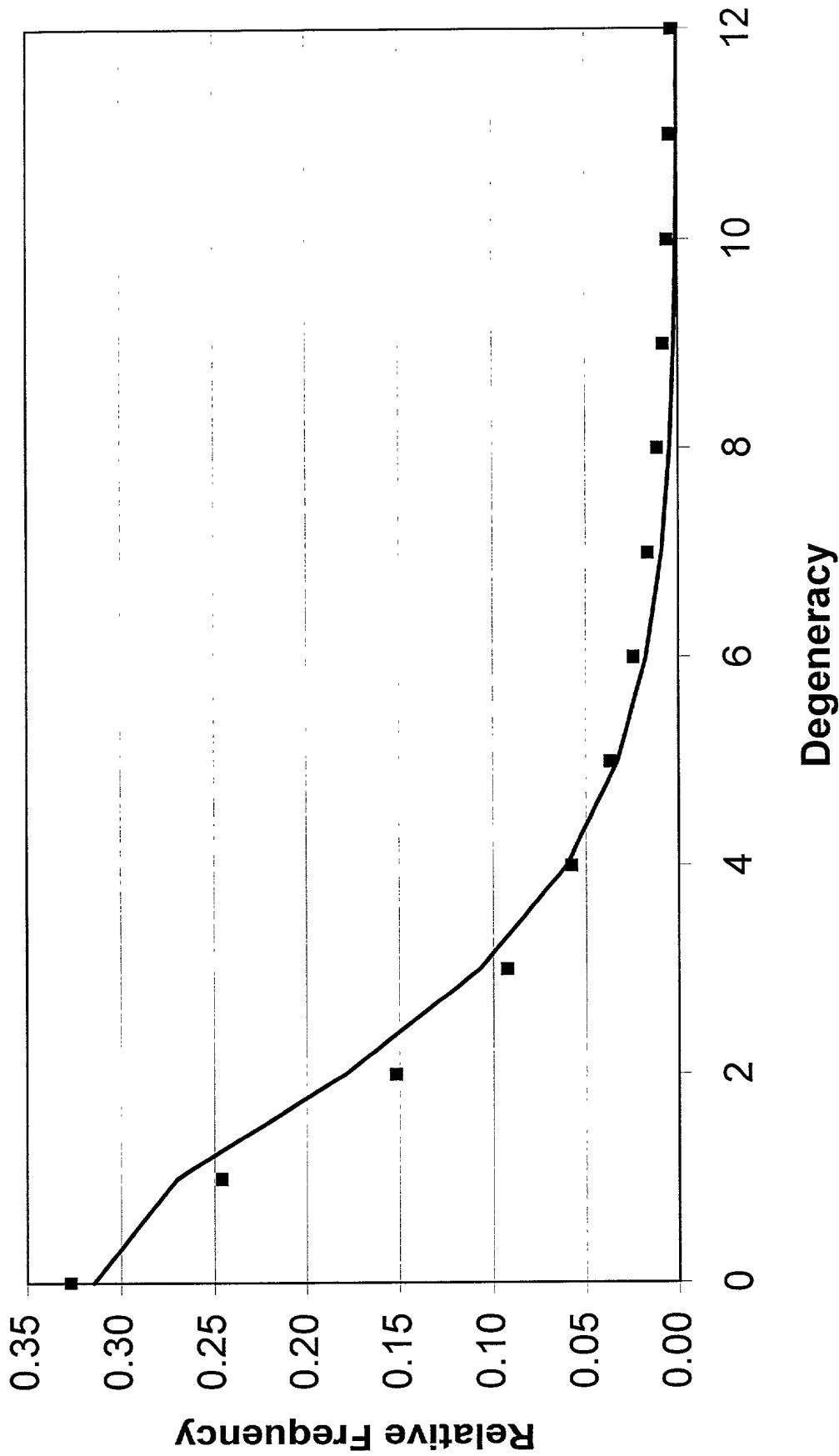


FIG. 5H

11-mers; mismatches: 1

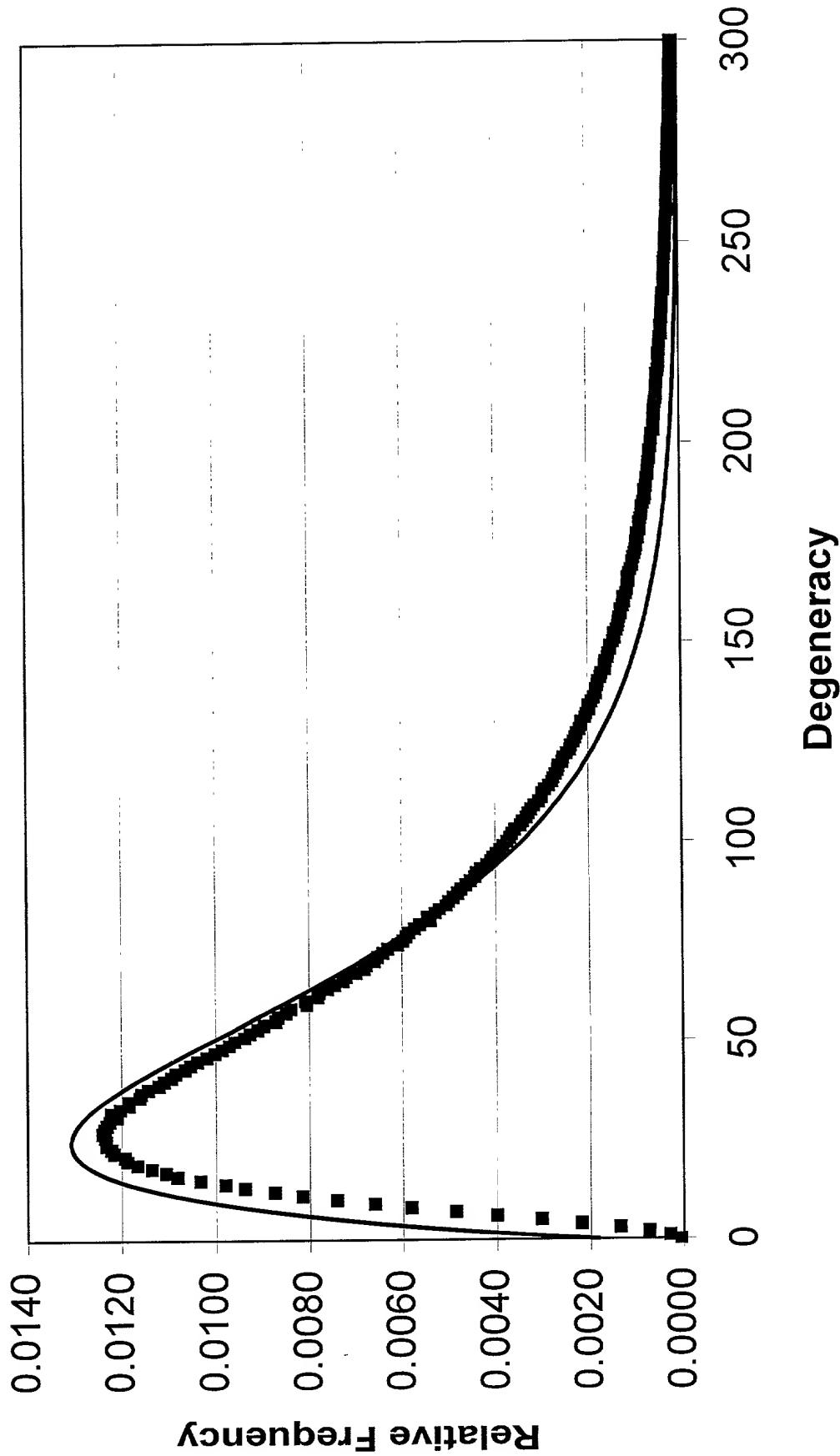


Fig. S1

12-mers; mismatches: 0

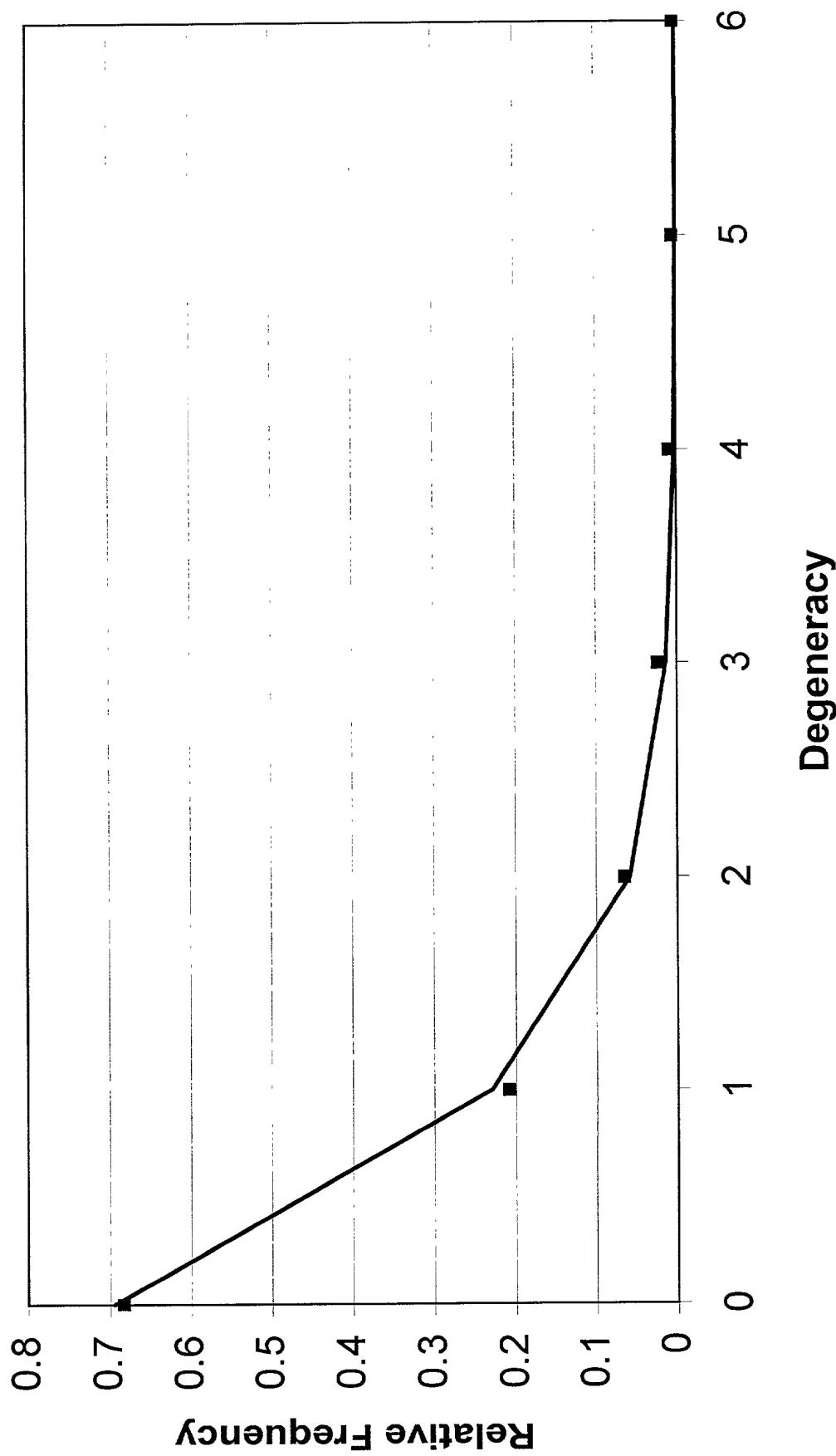


Fig. 5J

12-mers, mismatches: 1

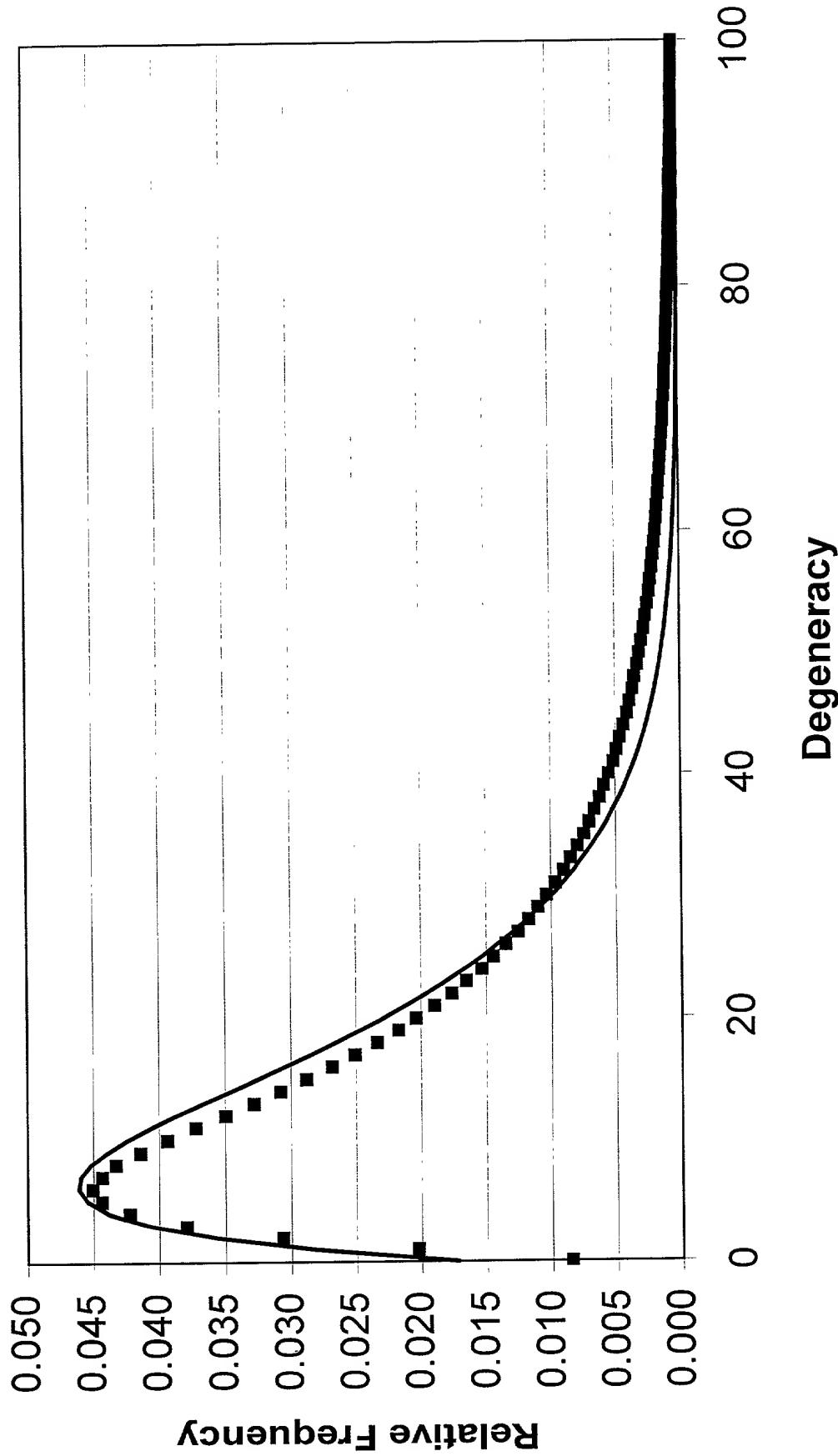
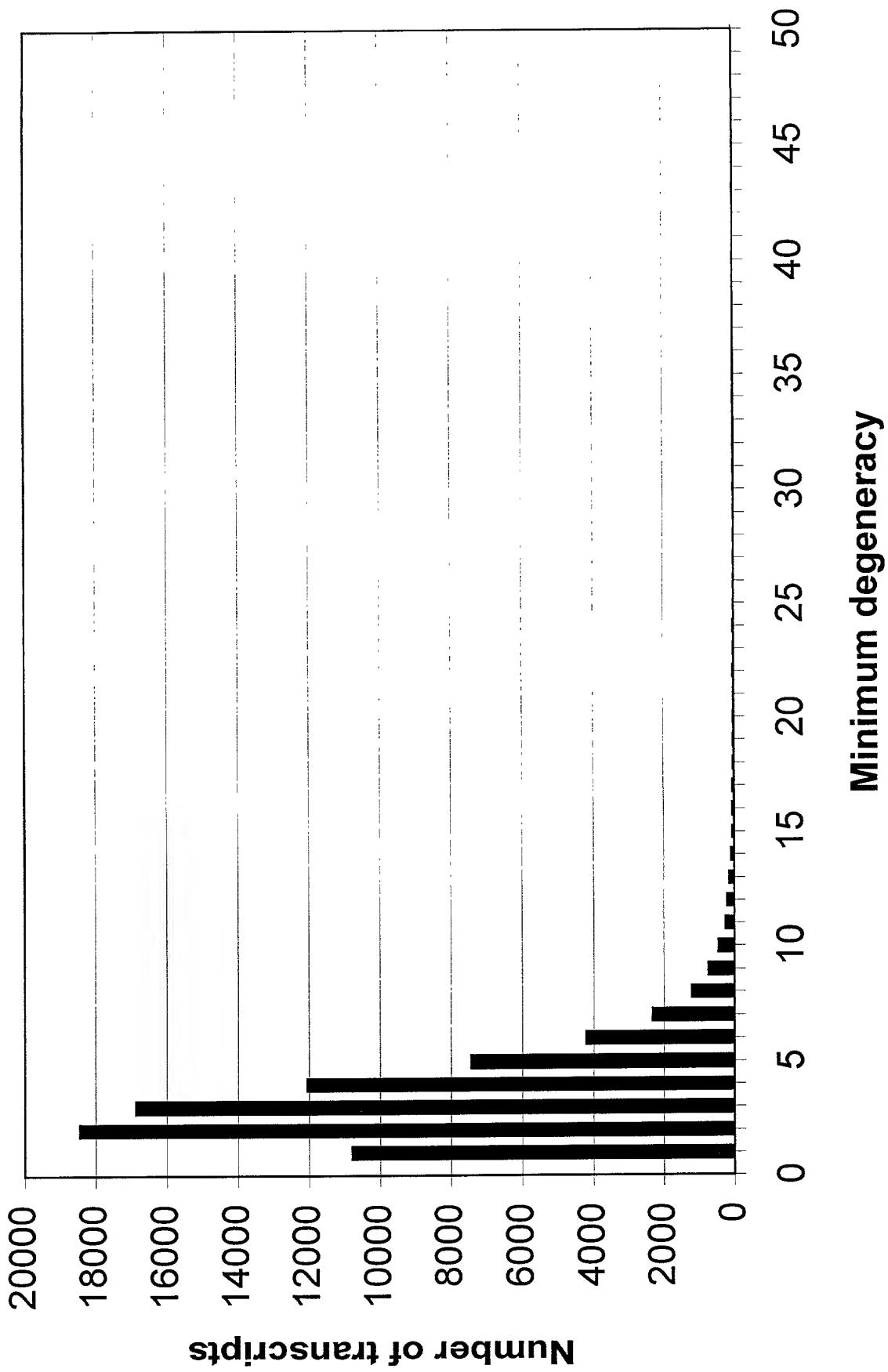


Fig. 6A



F 1G. 6B

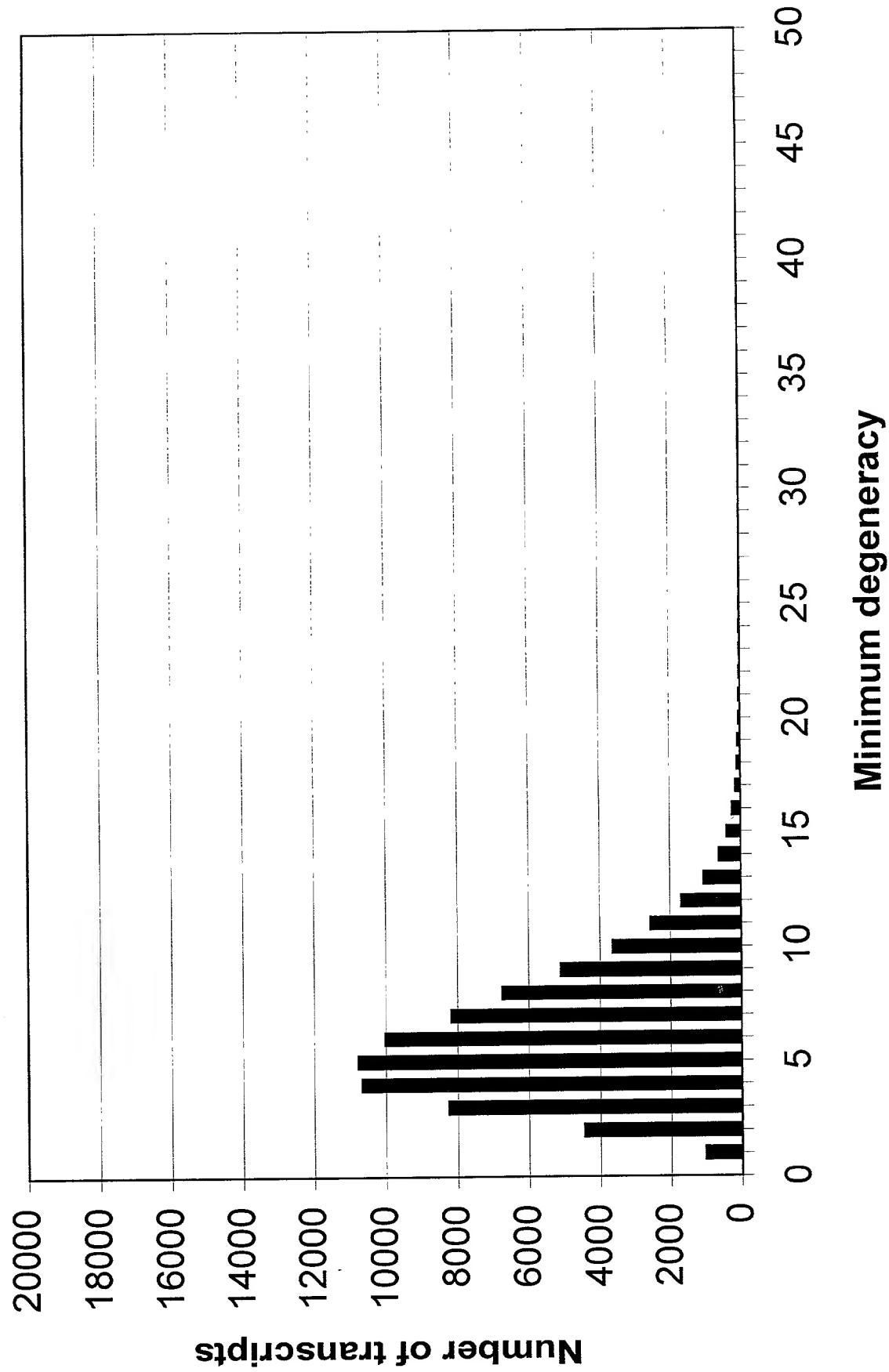


FIG. 6c

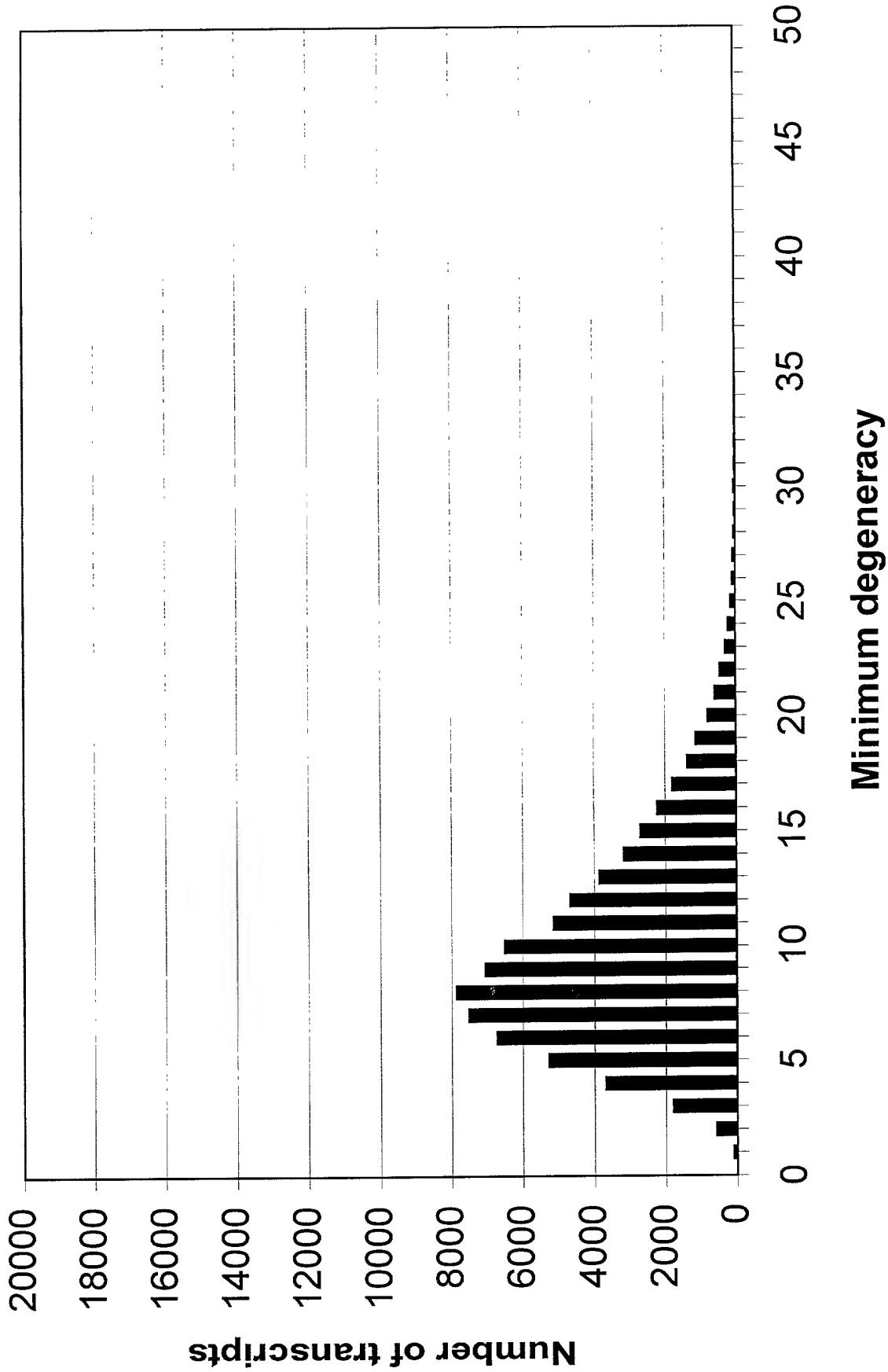


FIG. 6D

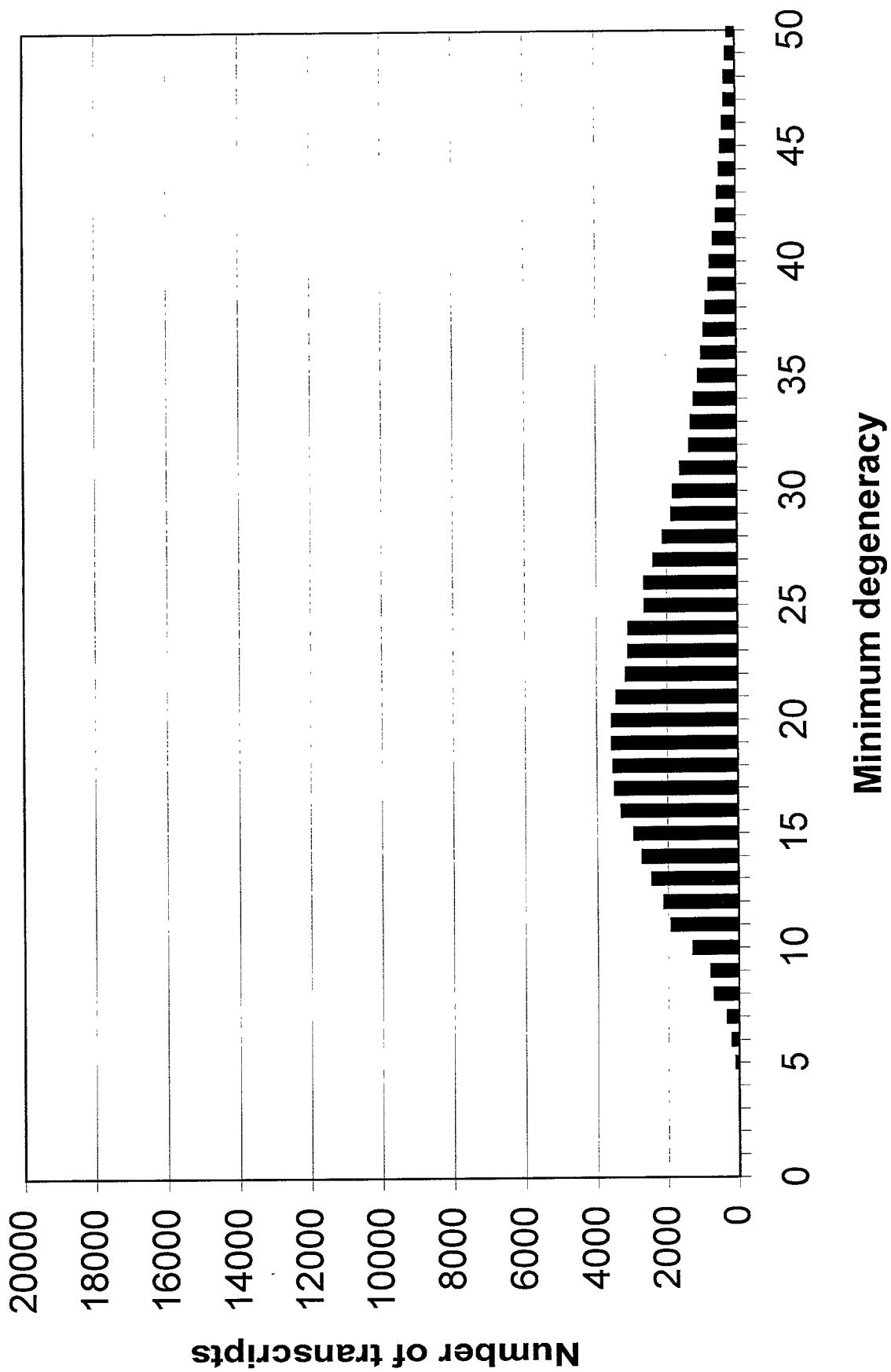


FIG. E

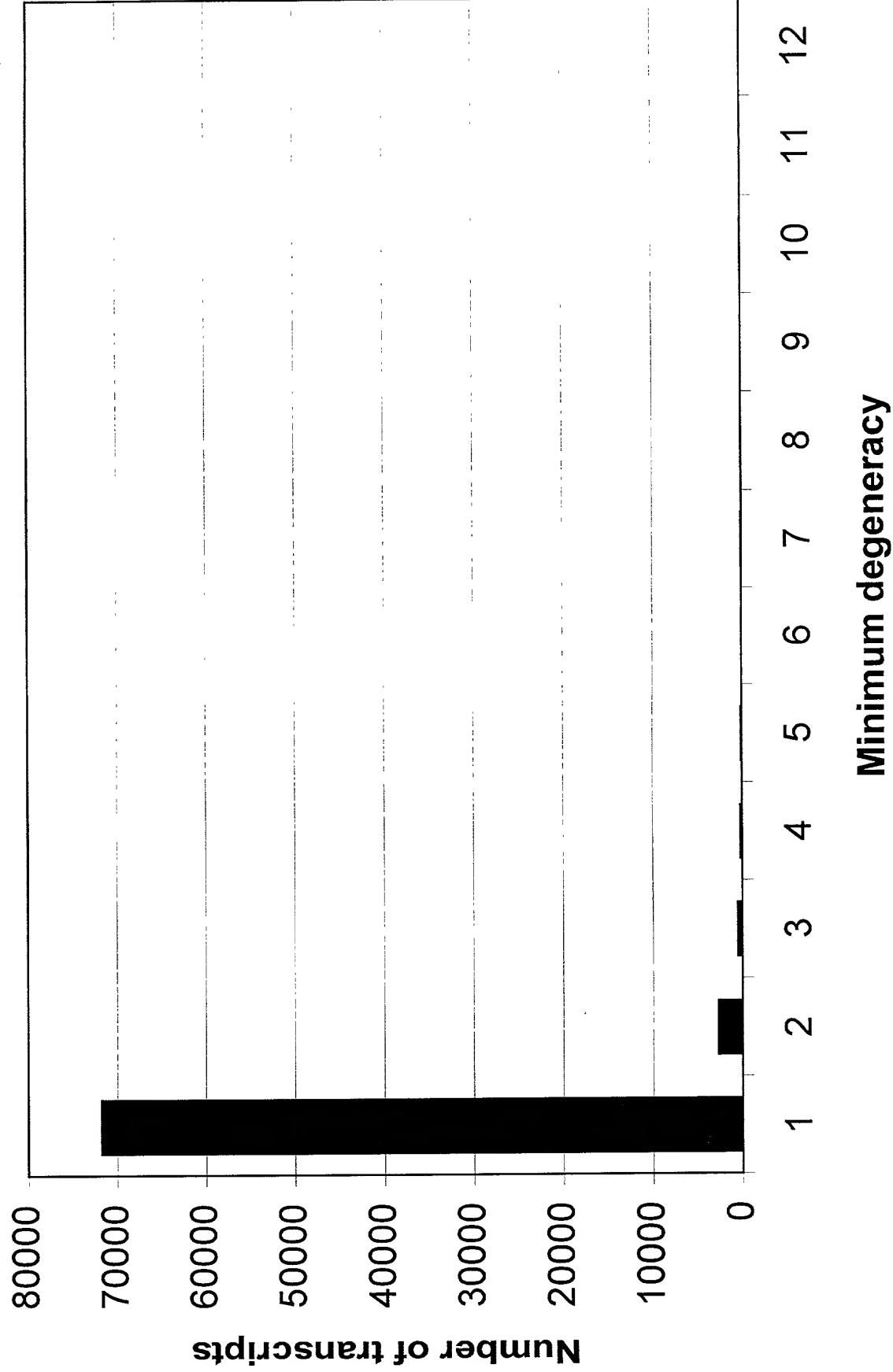
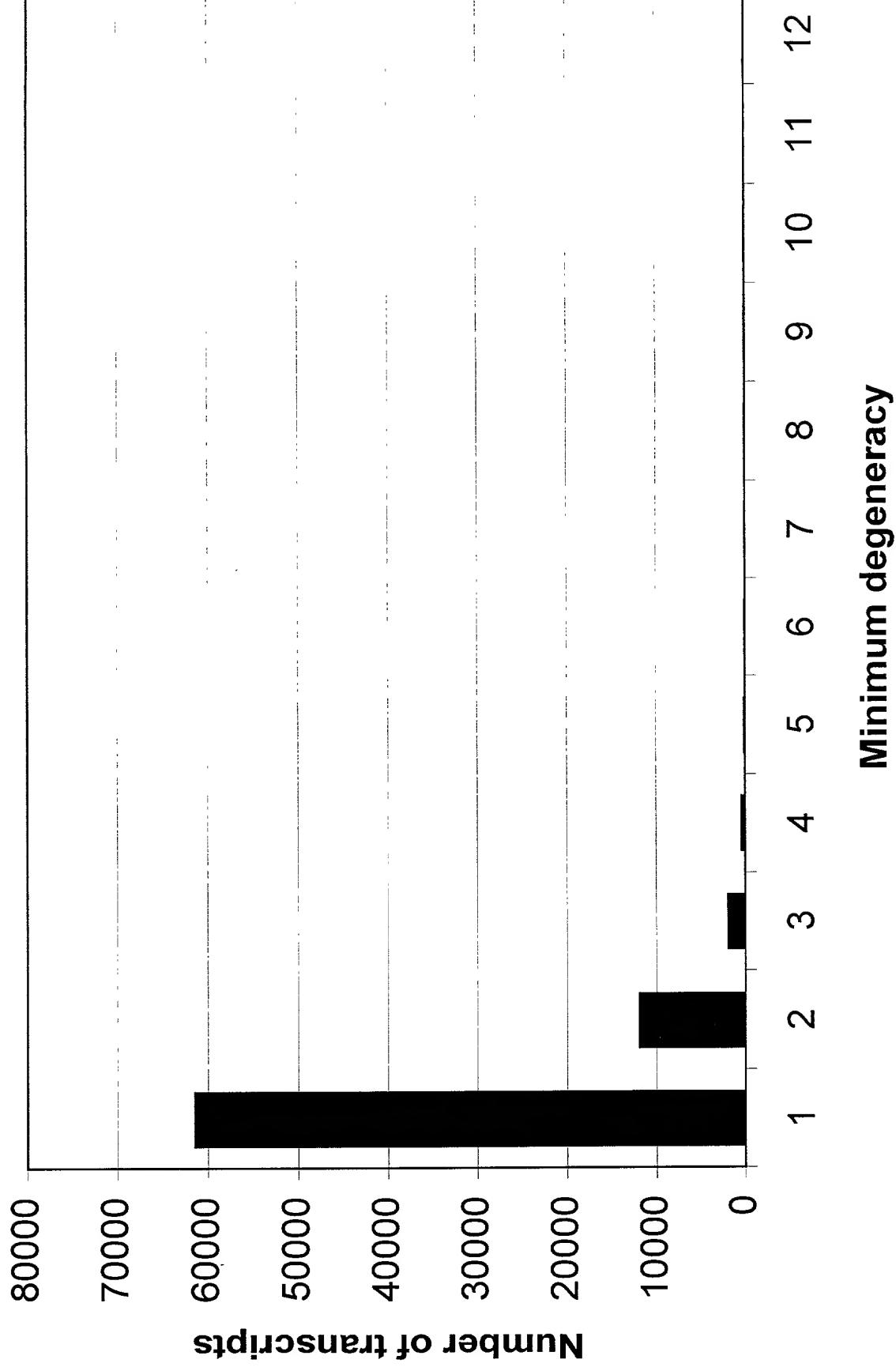
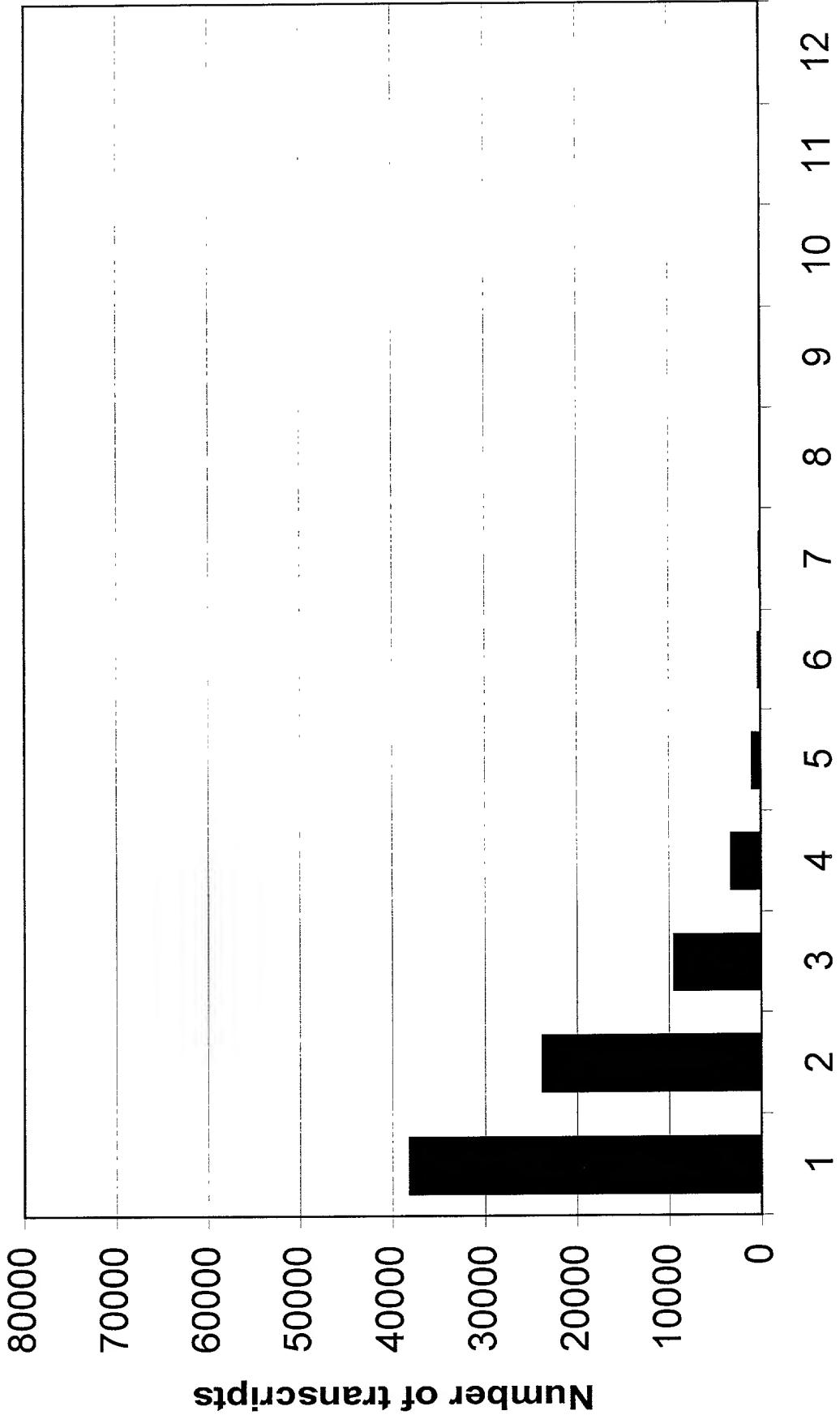


FIG. 6f

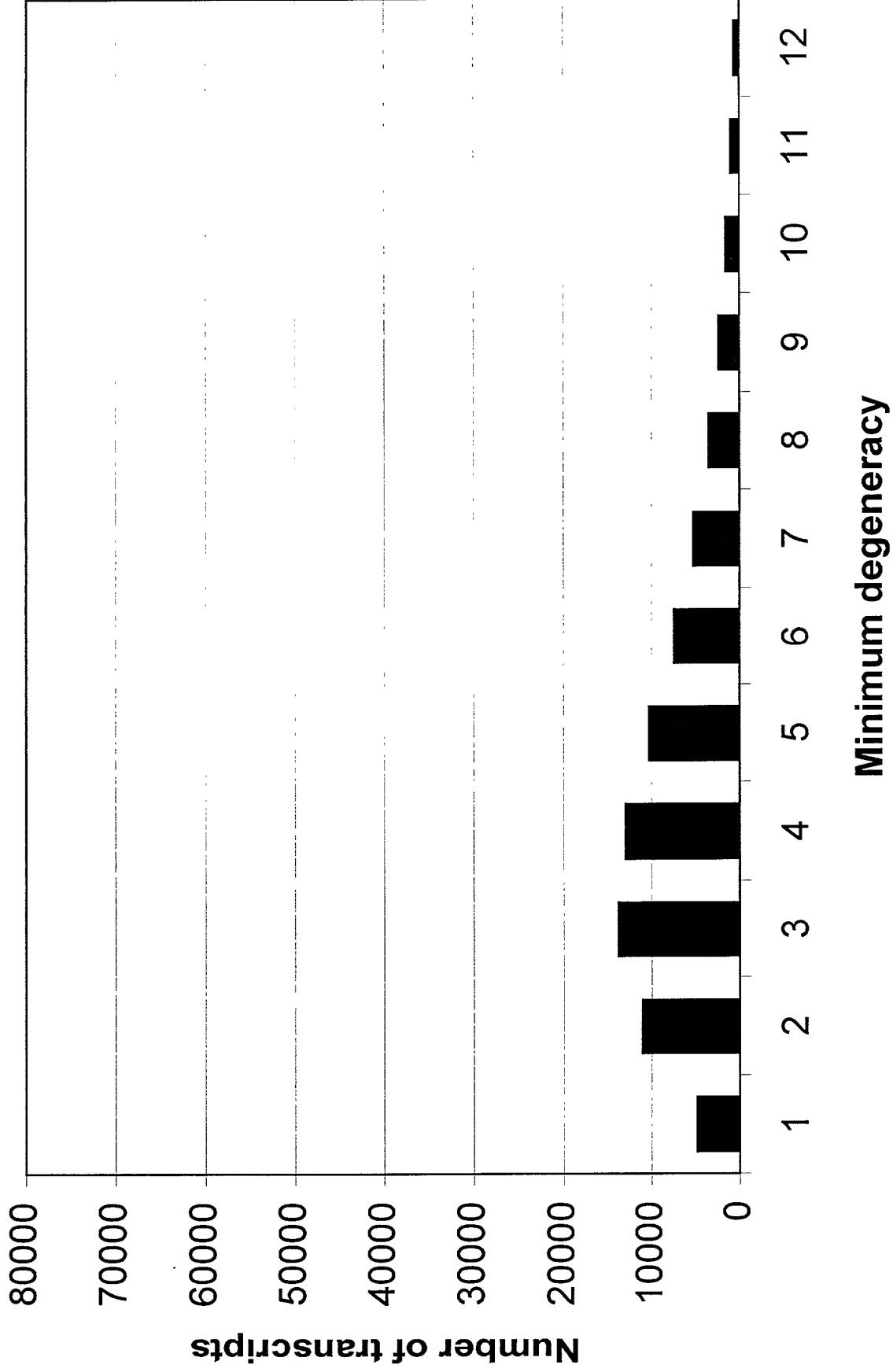


Minimum degeneracy



F1G. 6G

FIG. 6H



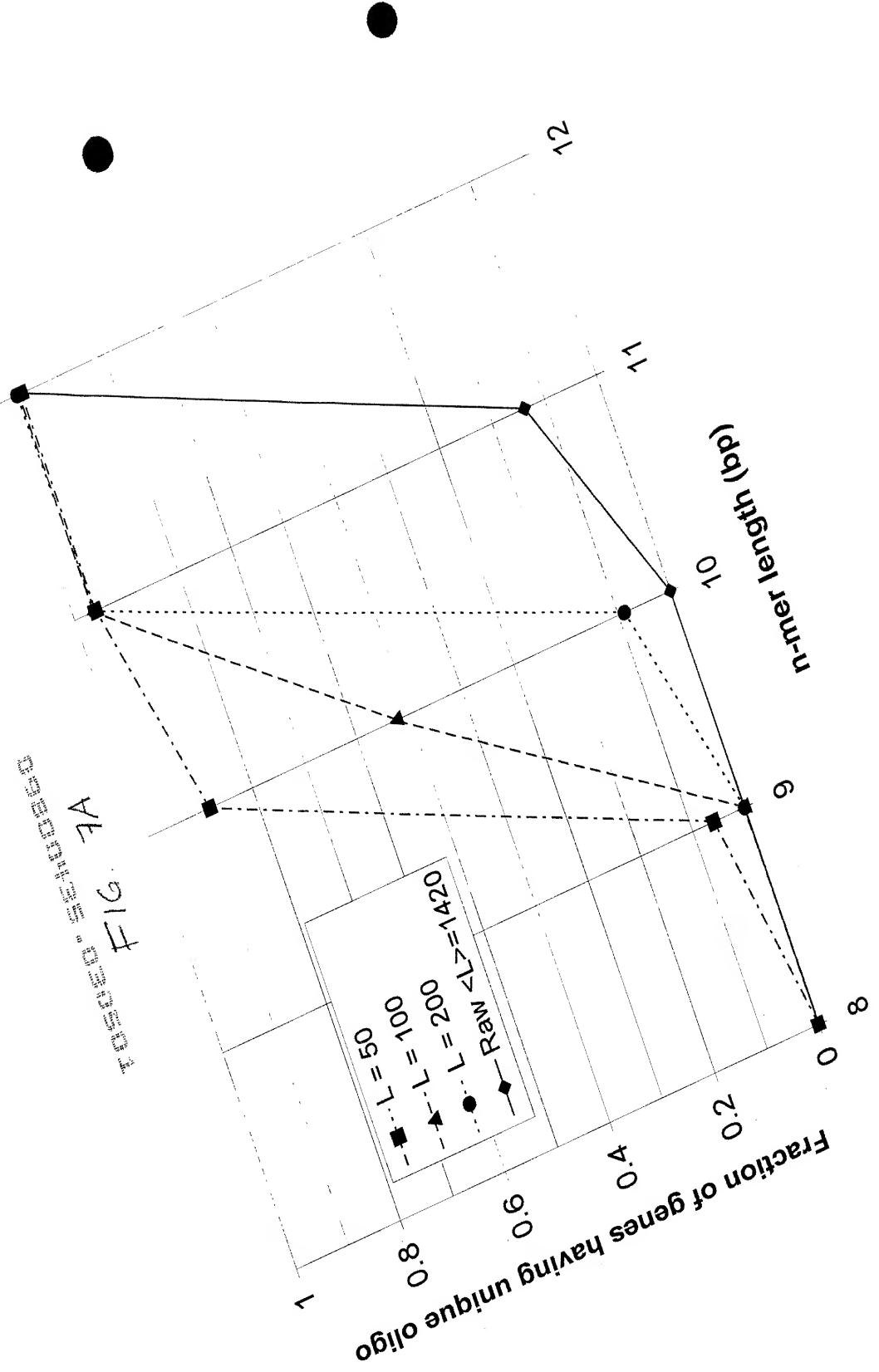
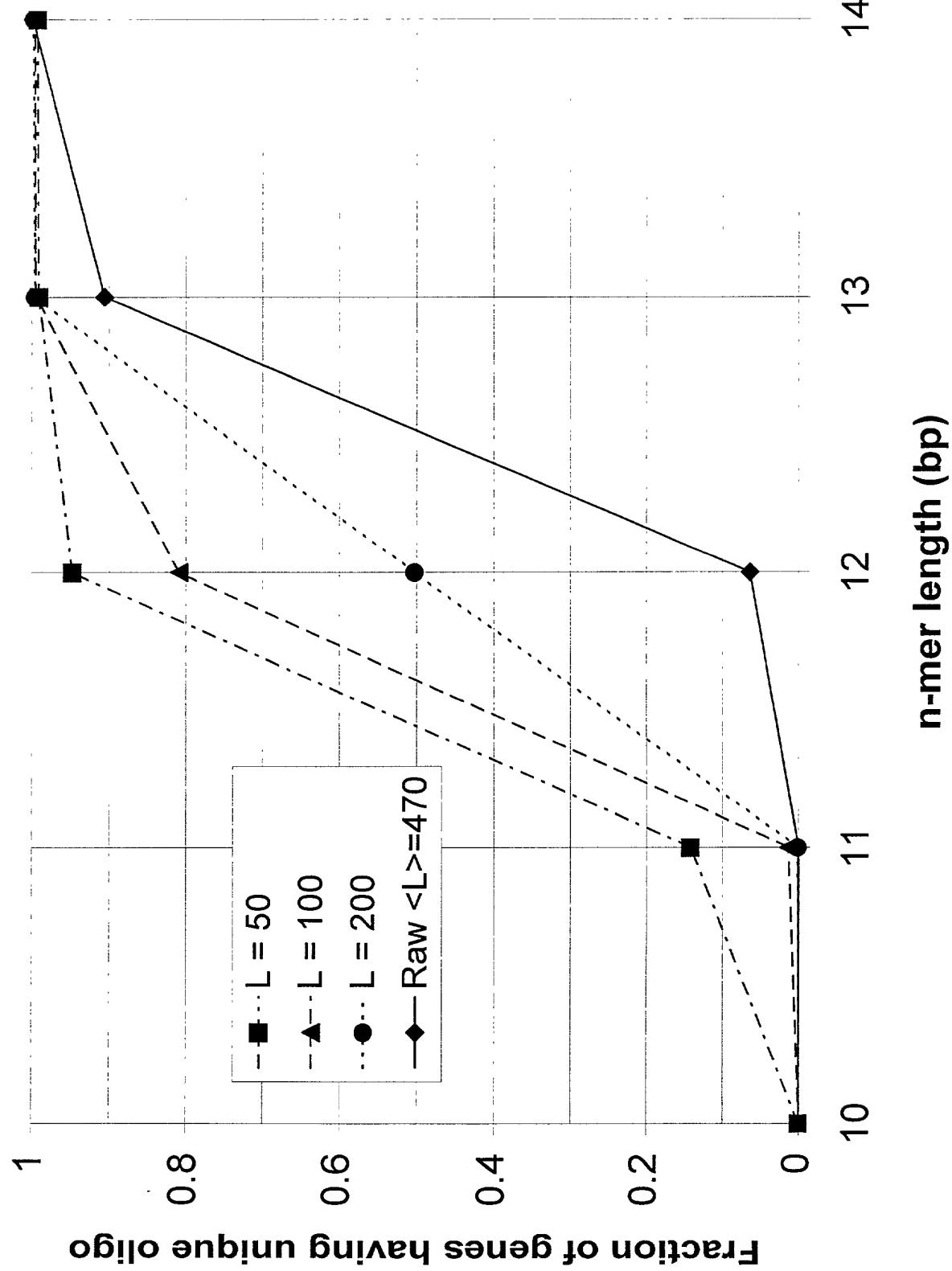


FIG. 7B



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